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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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SLC8A1 Pre-design Chimera RNAi

Catalog # : H00006546-R01

規格 : [10 nmol] [20 nmol]

List All

Specification

Product Description: Homo sapiens solute carrier family 8 (sodium/calcium exchanger), member 1 (SLC8A1), mRNA.

Reactivity: Human

Supplied Product: DEPC water

Target Refseq: NM_021097

Storage Instruction: Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

Note: Position of the Chimera RNAi.



Application Image

RNAi Knockdown

Publication Reference

- dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

Applications

RNAi Knockdown

Gene Information

Entrez GeneID: 6546

Gene Name: SLC8A1

Gene Alias: DKFZp779F0871,FLJ37694,FLJ43417,MGC119581,NCX1

Gene solute carrier family 8 (sodium/calcium exchanger), member 1

Description:

Omim ID: [182305](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: In cardiac myocytes, Ca(2+) concentrations alternate between high levels during contraction and low levels during relaxation. The increase in Ca(2+) concentration during contraction is primarily due to release of Ca(2+) from intracellular stores. However, some Ca(2+) also enters the cell through the sarcolemma (plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent overloading of intracellular stores, the Ca(2+) that entered across the sarcolemma must be extruded from the cell. The Na(+)-Ca(2+) exchanger is the primary mechanism by which the Ca(2+) is extruded from the cell during relaxation. In the heart, the exchanger may play a key role in digitalis action. The exchanger is the dominant mechanism in returning the cardiac myocyte to its resting state following excitation. [supplied by OMIM]

Other Designations: Na+/Ca++ exchanger,Na+/Ca2+ exchanger,OTTHUMP00000128378

Gene Pathway

[Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#) [Calcium signaling pathway](#)
[Cardiac muscle contraction](#) [Hypertrophic cardiomyopathy \(HCM\)](#)

Related Disease

[Cardiovascular Diseases](#) [Diabetes Mellitus, Type 2](#) [Genetic Predisposition to Disease](#)
[Hyperparathyroidism, Secondary](#) [Hypertension](#) [Hypertension, Renal](#) [Overweight](#)
[Tobacco Use Disorder](#)